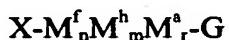


ABSTRACT

WATER SOLUBLE OR WATER DISPERSIBLE FLUOROCHEMICAL SILANES FOR RENDERING SUBSTRATES OIL AND WATER RELENT

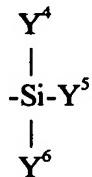
5

A water soluble or water dispersible fluorochemical silane represented by the general formula:



wherein X represents the residue of an initiator or hydrogen;

- 10 M^f represents units derived from one or more fluorinated monomer;
M^h represents units derived from one or more non-fluorinated monomer;
M^a represents units having a silyl group represented by the formula:



(II)

- 15 wherein each of Y⁴, Y⁵ and Y⁶ independently represents an alkyl group, an aryl group or a hydrolyzable group;

G is a monovalent organic group comprising the residue of a chain transfer agent;

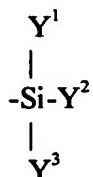
n represents a value of 1 to 100;

m represents a value of 0 to 100;

and r represents a value of 0 to 100;

- 20 and n+m+r is at least 2;

with the proviso that at least one of the following conditions is fulfilled: (a) G contains a silyl group of the formula:



(III)

wherein Y¹, Y² and Y³ each independently represents an alkyl group, an aryl group or a hydrolyzable group and at least one of Y¹, Y² and Y³ represents a hydrolyzable water solubilising group; or

(b) r is at least 1 and at least one of Y⁴, Y⁵ and Y⁶ represents a hydrolyzable water

solubilizing group.